8/121/63/000/001/005/014 4004/4126

AITHORS

Podurerev, V.M., Benharedov, A.M.

TITLE:

Card 1/1

Utilizing sebural escillations for breaking chips

PERIODICAL: Stanki i instrument, so. 1, 1963, 17 - 20

TEXT: Since the various mechanical, hydraulie, presents or electrical methods of producing the mecessary vibrations for squaking chips require more or less intricate devices, the mithers suggest using for the breaking of ships the less intricate devices, the mithers suggest using for the breaking of ships the natural oscillations originating due to the cutting process. Hatural estillations during the outting process may be produced 1) by an efficient change of the elastic system mechine - workpiece - tool by using special devices, 2) by selecting appropriate outting conditions and tool geometry with the given system mechine - workpiece - tool without any special devices. The authors give a demachine - workpiece - tool without any special devices. The authors give a detailed description of both methods, describe a vibrating saddle developed on the basis of investigations carried out by the NVTU is. Busines, assuments the factors determining the ohip-breaking conditions and point out that the text results obtained prove that this accommissal vibrating saddle ensures reliable chip-breaking during rough turning. There are 6 figures.

SATEL', E.A., zasluzhannyy dayatel' nauki i tekhniki, doktor
tekhn.nauk, prof.; PODURAYEY, V.N., kand.tekhn.nauk, dotsent;
tekhn.nauk, prof.; SUVOROV, A.A., inzh.

Vibration drilling of holes in stainless and heat-resistant
vibration drilling of holes in stainless and heat-resistant
steels. Vest.mash. 42 no.1:67-70 Ja '162. (MIRA 15:1)
(Drilling and boring)

	图1 医生产性医疗性 经未完全的 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ı.	PODURAZHNYY, P.K.; STIKHIN, A.F.
2:	USSR (600)
4.	Meadows P.K.
7•	Meadows Experience of the Khrushchev Collective Farm in rapid development of meadows, P.K. Podurazhnyi, A.F. Stikhin, Sots.zhiv. 15 no. 5, 1953.
9	. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

AFENDULOV, K.P., kand. sel'skokhoz. nauk; BOYKO, Ye.I., kand. sel'skokhoz. nauk; PEREMERAY, Ye.A., kand. sel'skokhoz. nauk; PODURAZHNYY, P.K. kand. sel'skokhoz. nauk; PONAMARENKO, F.K.

Practices in the intensive use of land. Zemledelie 27 no.6:15-20 Je 165.

1. Chernigovskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya. 2. Glavnyy agronom opytnogo khozyaystva Chernigovskoy oblastnoy sel'skokhozyaystvennoy stantsii (for Ponomarenko).

ZEL'DOVICH, Ya.B.; PODURETS, M.A.

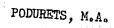
Evolution of a system of gravitationally interacting point masses.

Astron.zhur. 42 no.5:963-973 S-0 65. (MIRA 18:10)

阿尔	8/0020/64/256/002/0057/0060
÷	ACCESSION BR: APA035809 AUTHOR: Zel'dovich, Ya. B. (Academician); Podurets, M. A. TITIE: Neutrino emission of a star during gravitational collapse in the general AND STATES APA035809
	TITIE: Neutrino emission of a state theory of relativity theory of relativity SOURCE: AN SSER. Doklady*, v. 156, no. 1, 1964, 57-60
	ropic TAGS: neutrino emission; superstar relativity theory, superstar collapse, superstar relativity theory, superstar collapse was given by J. Oppenheimer et al relativity theory of a gravitational collapse was given by J. Oppenheimer et al relativity theory of a gravitational collapse was given by J. Oppenheimer et al relativity, shows that the
	superstars. The theory, based into outer space applicational radius). In superstars. The theory, based into outer space applicational radius). In superstars of light by the star into outer space applicational distributions of light by the star into outer space applicational radius). The suthers have investigated the gravitational radius.
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Asymptotic behavior of the optical brightness of a star at gravitational collapse in the general theory of relativity.

Astron. zhur. 41 no.621090-1096 N-D *64 (MIRA 1821)

POPURETS, M.A.

Form of the Einstein equations for spherical symmetrical motion of a continuous medium. Astron.zhur. 41 no.1:28-32 Jm-F 164.

(MIRA 17-4)

PODUROVA, K.N.

Characteristics of the function of the reticulcendothelial system during the development of transplanted cancer. Uch. zap. Ped. inst. Gerts. 179:277-295 '58. (MIRA 16:5)

(CANCER) (RETICULOENDOTHELIAL SYSTEM)

日本政治的主义,这种主义,这种主义,这种主义,这种主义,是一种主义,是一种主义,是一种主义,是一种主义,是一种主义,是一种主义,但是一种主义,但是一种主义,是一种主义

FODUROVSKAYA, M.A., ordinator

Effectiveness of combined treatment of cancer of the uterine body. Shor. nauch. trud. Rost. gos. med. inst. no.21:65-69
163. (MIRA 17:11)

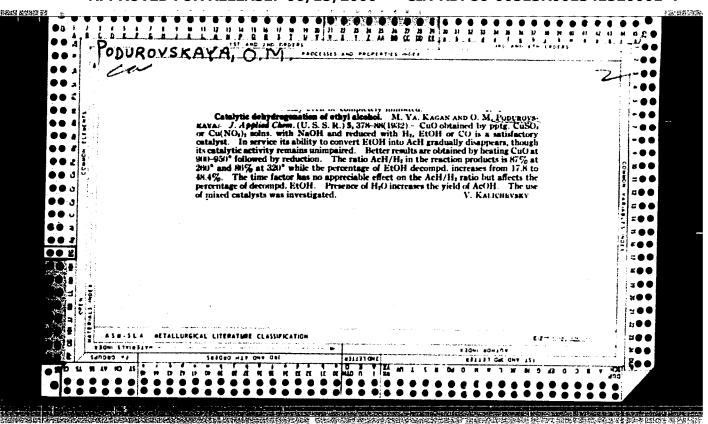
1. Iz ginekologicheskogo otdeleniya (zav. otdeleniyem V.I. Avrashova; Gorodskoy bol'nitsy No.2 Rostova-na-bona (glavnyy vraen A.G. Sehastnyy); nauchnyy rukovoditel' -prof. F.Ya. Lel'chuk.

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PETRAKOVICH, V.Ye.; PODUROVSKAYA, O.M., TUR YAN, Ya.I.

Comparison of platimum oxide and glass indicator electrodes in acid-base titration. Effect of nonaqueous solvents, the nature of the titrant, and various additions. Zhur. anal. khim. 20 no.8:785-789 *65. (MIRA 18:10)

l. Mauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti, Moskva, i Yaroslavskiy nauchno-issledovatel'skiy institut monomerov.



PODUROVSKAYA, O.M.; YEFIMOVA, N.I.

Reaction of cyclohexanone oxime with potassium bromate. Zav.lab. 29 no.4:420 '63. (MIRA 16:5)

1. Gosudarstvennyy institut azotnoy promyshlennosti.
(Cyclohexanone) (Potassium bromate)

PODUROVSKAYA, O. M.

PA 8T5

USSR/Chemistry - Butadiene Chemistry - Ethyl alcohol

Feb 1947

"On the Machanism of the Catalytic Synthesis of Butadiene from Ethyl Alcohol, "M. Ya. Kagan, G. D. Lyubarsky, O. M. Podurovskaya, 8 pp

"Izv Ak Nauk Khim" No 2

Preparation of butadiene from crotonaldehyde in the presence of the catalysts which make possible the hydrogenation of the latter through conjugate dehydrogenation of alcohol.

8T5

PODUROVSKAYA, O. M.

USSR/:hysics Adsorption

Aug 48

"Adsorption of Vapor Mixtures on Porous Adsorbents," G. F. Lesokhina, O. M. Podurovskaya, K. A. Gol'bert, Physicochem Inst imeni L. Ya. Karpov, Moscow, 62 pp

"Zhur Fiz Khim" Vol XXII, No 8

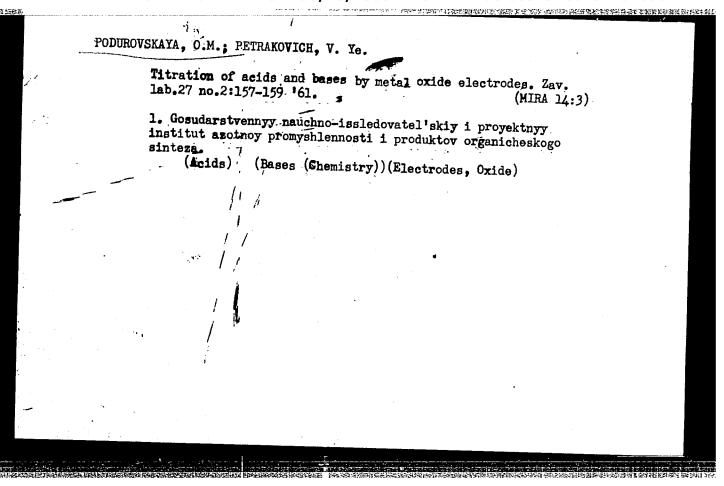
Deduces that there is a very close relationship between adsorption from solutions and adsorption from vapor mixtures of the same belance as these solutions. Approximate predictions can be made for adsorption of vapor mixtures on carbon, given adsorption from solutions and relatively high pressure. Submitted 8 Dec 47.

PA 55/49T80

PROTASHIK, Vasiliy Amufriyevich; ZOZULYA, Nikolay Vasil'yevich, inzh.; ISAYEV, Yuriy Borisovich; UDAL'TSOV, A.N., glavnyy red.; KONAREV, N.I., kand.khim.nauk; red.; PODUROVSKAYA, O.M., kand.khim.nauk, red.; TOLCHINSKIY, Ye.M., inzh., red.

[Nquipment for gauging the surface of hard objects by adsorption of radioective carbonic acid. Device for measuring the thickness of liquid films in a vacuum. A receiver-condenser! Ustanovka dlia izmereniia poverkhnosti tverdykh veshchestv po adsorbtsii radioaktivnoi uglekisloty. Pribor dlia izmereniia tolshchiny zhidkikh plenok v usloviiakh vakuuma. Priemnik-kondensator. Moskva, 1956. 12 p. (Pribory i stendy. Tems 8, no. P-56-439) (MIRA 11:3)

Moscow. Institut tekhniko-ekonomicheskoy informatsii.
 (Radioactive substances--Industrial applications)
 (Surfaces (Technology)) (Thickness measurement)



PODUROVSKAYA, O.M.; KUTILINA, R.A.; YEFIMOVA, N.I.

Bromatcmetric determination of cyclohexanone oxime. Zav. lab. 27
no. 4:403-405 '61.

(MIRA 14:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
azotnoy promyehlennoste i produktov organicheskogo sinteza.

(Cyclohexanone) (Potassium bromate)

PODUROVSKIY, I.M., inzh.

New methods used in concreting the Krasnoyarsk Hydroelectric Power Station. Mekh. str i. 17 no.11:28 H *60. (MIRA 13:11) (Krasnoyarsk Hydroelectric Power Station) (Concrete—Transporation)

FODUROVSKIY, I.M.; TOROPOV, L.N., red.; LARIONOV, G.Ye., tekhn. red.

[Overhead cable conveying at hydroelectric construction projects] Kanatnyi podvesnoi transport na gidroenergeticheskom stroitel'stve. Moskva, Gos. energ. izd-vo, 1961. 93 p. (MIRA 15:3)

(Cableways)

MIRONOV, S.A., doktor tekhn. nauk, prof.; MALININA, L.A., kand. tekhn. nauk; FEDOROV, V.A., inzh.; KAYSER, L.A., inzh.; KRONGAUZ, S.D., kand. tekhn. nauk; PANFILOVA, L.I., kand. tekhn. nauk; SEMENOV, L.A., doktor tekhn. nauk, prof.; PODUROVSKIY, N.I., kand. tekhn. nauk; VINNITSKIY, A.M., kand. tekhn. nauk; KLIMOVA, G.D., red. izd-va; SHEVCHENKO, T.N., tekhn. red.

[Instructions on curing concrete and reinforced concrete products at plants and building sites] Instruktsiia po proparivaniiu betonnykh i zhelezobetonnykh izdelii na zavodakh i poligonakh. Moskva, Gosstroiizdat, 1962. 33 p. (MIRA 15:12)

l. Akademiya stroitel'stwa i arkhitektury SSSR. Institut betona
i zhelezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stwa i arkhitektury SSSR (for Mironov).
 (Precast concrete--Curing) (Autoclaves)

SEMENOV, N.A., doktor tekhn. nauk, prof.; PODUROVSKIY, N.I., inzh.

Heat-curing of concrete using clean saturated steam. Bet. i zhel.-bet. no.12:480-486 D '57.

(Goncrete) (Autoclaves)

(Goncrete) (Autoclaves)

KONOPLENKO, A.I., kand.tekhn.nauk; PODUROVSKIY, N.I., inzh.; ROMODANOV, A.N., inzh.

Determining the relation between small and large aggregate particles in selecting concrete mixes. Bet. i zhel.-bet. no.6:206-208 Je '58.

(MIRA 11:6)

PODUROVSKIY, N.I., assistent; SAVIN, Ye.S., assistent

Byaluating the quality of steam curing of concrete. Trudy RISI no.15:63-72 '58. (MIHA 13:6)

(Concrete—Curing)

PODUROVSKIY, N. 1., CAND TECH SCI, "STEAMING CONCRETES IN A MEDIUM OF PURE SATURATED STEAM." MOSCOW, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR. MOSCOW ORDER OF LABOR RED BANNER ENGINEERING CONSTRUCTION INST IMENI V. V. KUYBYSHEV). (KL-DV, 11-61, 222).

-175-

SEMENOV, L.A., doktor tekhn. nauk, prof.; PODUROVSKIY, N.I., inzh.; CHERKINSKAYA, L.R., red. izd-va; MIKHEYEVA, A.A., tekhn. red.

[Pressureless autoclave] Beznapornaia proparochnaia kamera. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, (MIRA 14:10)

1961. 105 p. (Autoclaves) (Precast concrete)

LAVROVA, I., assistent; PODURTSEVA. Ye., khirurg

Away with accidents in everyday life. Okhr. truda i sots. strakh. 4 no.5:39-40 My '61. (MIRA 14:5)

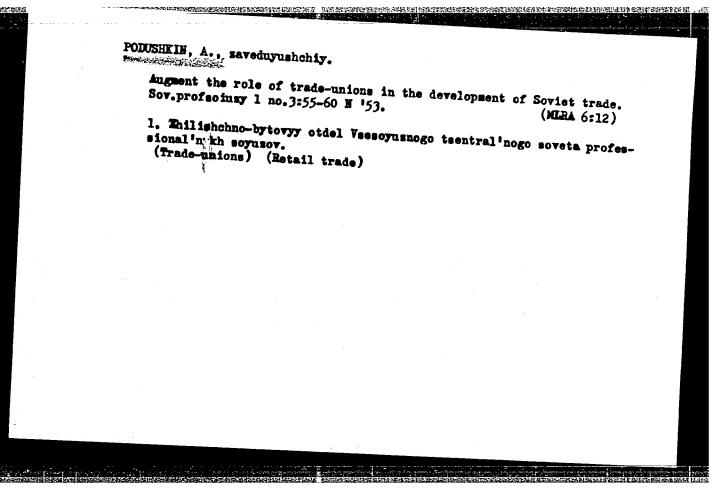
1. Kafedra organizatsii zdravookhraneniya 1-go Moskovskogo meditsinskogo instituta (for Lavrova). 2. Mediko-sanitarnaya chastizavoda "Kauchuk" (for Podurtseva).

(Moscow-Safety education)

PODUSHIN, A.

2617h Iz opyta rukovodstva kyliturno-massovov rabotov (TSK PROF. somuza rabochika elektrostantsiv) Prof. somuzv, 1949, 8, s. 16-20

SO: LTTOPIS' Mo. 35, 1949



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PERVUYHIN, M.G.; LOGINOV, F.G.; ZHIMERIN, D.G.; PAVLENKO, A.S.;

KULEV, I.A.; DORCHERIO, V.I.; DROETSHEV, A.I.; IMITRITEV, I.I.;

THEMAKOV, V.S.; SOSSIN, L.A.; PROUSSHEIN, A.S.; SMIRROV, M.S.;

ACREASOV, M.Ia.; MIKOL'SKII, G.P.; EURILOV, M.A.; KOOTEV, G.I.;

MIKINGROV, P.M.; FLATOROV, M.A.

Vladimir Hikolaevich Sergeev; obituary. Elek. sta. 27 no.3:63 kr

'56.

(Sergeev, Vladimir Hikolaevich, 1903-1956)
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L 38910-66 EWT(m)/EWP(t)/ETI IJP(c) ACC NR: AP6019563 SOURCE CODE: UR/0080/66/039/006/1249/1256 AUTHOR: Gopiyenko, V. G.; Gopiyenko, G. N.; Timofeyev, V. V.; Podushkin, D. I. ORG: none TITLE: Behavior of steels in melts containing titanium chlorides SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 6, 1966, 1249-1256 TOPIC TAGS: titanium, chloride manganese, chromium, vanadium, molybdenum, nickel, corrosion, steel / steel-3, 1Kh18N9T steel, 2Kh13 steel ABSTRACT: The article reports on a study of the behavior of certain steels (steel-3, 1Kh1SN9T, 2Kh13) and metals (Mm, Cr, V, Mo, Ni) in melts containing TiCl2, TiCl3, and TiCl4 in various proportions, carried out mainly for the purpose of obtaining melts with lower titanium chlorides, and also to determine the conditions of electrowinning and refining of titanium in melts. In melts containing metallic Ti and TiCl2, virtually no corrosion of steel-3 is observed; on the contrary, the formation of titanium coatings on the steel takes place. Alloy steels (1Kh18N9T and 2Kh13) display a greater corrosion than does steel-3, owing to a selective dissolution of chromium out of the steel. In melts containing TiCl3, all the steels corrode and contaminate the melt with iron chlorides; a lesser corrosion is exhibited by steel-3 in this case as well. The most pronounced corrosion occurs on all the steels under <u>Card</u> 1/2 UDC: 546.82 131-143

PODUSHKO, S.V., inzhener-podpolkovnik; ROYENKO, P.V., inzhener-podpolkovnik

Improve the system for keeping track of failures and defects in
equipment. Vest.protivovozd.obor. no.3:39-40 Mr '61. (MIRA 14:7)

(Airplanes--Maintenance and repair)

PODUSHKO, T.A.; ODINOKOVA, V.A.

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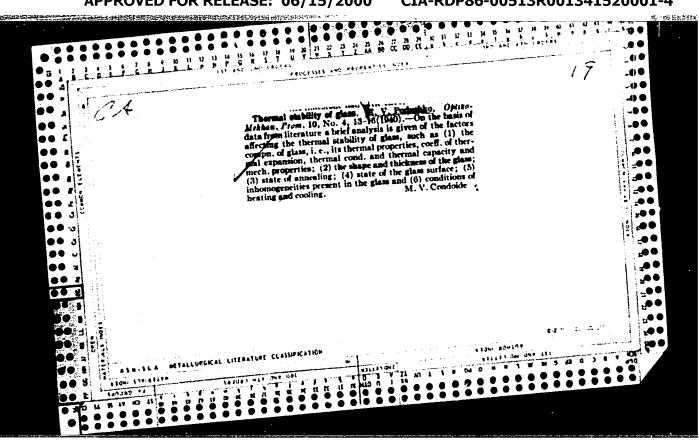
Unusual course of acute leukemia. Probl. gemat. i perel. krovi no.10:56-58 '62. (MIRA 17:12)

1. Iz l-y terapevticheskoy kliniki (zav. - doktor med. nauk M.G. Malkina) i patomorfologicheskogo otdela (zav. A.A. Naumov) Moskovskogo oblastnogo nauchno-issledovateliskogo klinicheskogo instituta imeni M.F. Vladimirskogo.

PODUSHKO, T. A.

"Fever Reactions in Cases of Acute Atrophy of the Liver," Klin. Med., 27, No.6, 1949

1st Therapeutic Clinic, Moscow Oblast' Sci.Res. Clinical Inst.



8/0000/63/003/001/0090/0099

AUTHOR: Florinskaya, V. A.; Podushko, Ye. V.; Gonek, T. N.; Cherneva, E. F.

TITLE: Infrared spectra of glassy and crystallized silicates of the system lithium oxidealuminum oxide-silicon dioxide + TiO₂ and their relationship to the structure

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 90-99, insert between p. 90 and 91.

TOPIC TAGS: glass, silicate, crystallization, glass structure, infrared spectrum, infrared spectroscopy, lithium oxide, aluminum oxide, titanium dioxide, spodumene

ABSTRACT: Infrared spectra of glass 13 with TiO₂ were determined over a range of 7-14 microns, along with the spectra of several natural minerals. The effects of variations in thermal treatment on the spectral properties and structure were investigated. The results show that transparent crystalline glass containing titanium with a composition close to spodumene has essentially the same crystal structure as found in pure crystallized spodumene glass. These crystals are formed below 800C. Loss of transparency in crystalline glass of the same or very similar composition is caused by the different

appearance of crystalline phases and by the larger dimensions of the crystals which are formed. The temperature conditions during the crystallization of glass and the addition of oxides can affect the composition of the crystalline phases. Glass crystallization is preceded by a period of latent structurization. Orig. art. has: 8 figures.

ASSOCIATION: None

SUBMITTED: 17May63

DATE ACQ: 21Nov63

ENCL: 00

SUB CODE: MT, OP

NO REF SOV: 000

OTHER: 000

2/2

Card

8/0000/63/003/001/0101/0104

AUTHOR: Kondrat yev, Yu. N.; Podushko, Ye. V.
TITLE: A study of catalysed crystallization by changes in absorption.
SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya crystallizatsiya stekla (Vitreous state, no.1: Catalyzing crystallization of glass.) Trudy* simpoziuma, v.3, no.1.
Moscow, IEd-vo AN SSSR, 1963. 101-104.

TOPIC TAGS: catalyzed crystallization, silicate glass, glass, absorption spectrum, optical density, glass crystallization

ABSTRACT: Glass of the system Li₂0-Al₂0₃-Si₀₂ with Ti₀₂ admixtures, with varying amounts of Li₂0 but in the region close to spodumene, was used as test samples. Two temperature ranges were investigated, one in which no glass crystallization occurs and the other in which crystallization and a further regrangement of the structure take place. The change in optical density with time and temperature was plotted, and a general equation was given for these curves:

$$\ln \frac{D_{\rho}^{s} - D_{0}}{D_{\rho} - D_{t}} = K_{1}t.$$

— 101 —

(1)

Cord 1/3

in which K1 is the constant rate of change in optical density at a given temperature. The activation energy for the Lil+ displacement, calculated by electroconductivity data, is 16-19 kcal/mol., but the observed activation energy was 2.5 times as large. The main stages of the conversion to crystallized glass during heating are indicated, and the changes in optical density of glass due to heating are explained. The crystallization process is said to consist of two stages: the diffusion of light ions and the diffusion of elements of the lattice, terminating in the formation of more or less ordered regions; the precrystallization period is the period of covalent diffusion. The method proposed for the study of the processes of precrystallization and crystallization is convenient because absorption of light by glass is a property which is sensitive to structural changes. The materials for the synthesis of glass contain colored indicators (in our case iron). This makes it possible to investigate these processes and connect them to the formation of centers of crystallization and a substance intermediate between glass and the final crystalline structure. Orig. art. has: 5 figures and 4 formulas.

ASSOCIATION: None

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5/0000/63/003/001/0074/0081

AUTHOR: Podushko, Ye. V.; Kozlova, A. B.

TITLE: Mechanism of the catalyzed crystallization of glass of the lithium oxide-aluminum oxide-silicon dioxide system with titanium dioxide

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1. Moscow, Izd-vo AN SSSR, 1963, 74-81

TOPIC TAGS: glass, glass crystallization, catalyzed crystallization, titanium dioxide, lithium glass

ABSTRACT: Glass of the system Li₂O-Al₂O₃-SiO₂ containing titanium dioxide as a catalyst (2.0-11.0% by weight) and with a composition close to that of spodumene was investigated, and the two main stages in catalyzed crystallization were studied. In the first stage, the action of the catalyst appears and the conditions for the subsequent nucleation are created, while the second stage, nucleation and crystal growth proceed. Defects due to the catalyst are described. The effect of the amount of catalyst at different quenching temperatures

Card 1/2

\$/0000/63/003/001/0164/0166

AUTHOR: Kalinin, M. I.; Podushko, Ye. V.

TITLE: Crystallized glasses based on cordierite

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vyrp. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state, no. 1: Catalyzing crystallization of glass). Trudy* simpoziuma, v. 3, no. 1, Moscow. Izd-vo AN SSSR, 1963, 164-166

TOPIC TAGS: glass, glass crystallization, cordierite, titanium dioxide

ABSTRACT: The catalyzed crystallization of glasses of the system Mg0-Al203-Si02, either having the composition of cordierite or containing at least 70% of this compound, was investigated using $8-20\%\ \text{TiO}_2$ as the catalyst. The effect of catalyst content and of preliminary heat treatment on the subsequent course of crystallization was determined, crystallization being carried out b, the polythermal method at 700-12000 for 24 hours. Studies of the thermal effect and of the coefficient of linear expansion in relation to the temperature of crystallization showed that preliminary heat treatment had no effect in the presence of large amounts of catalyst, but that such treatment was required with small amounts of

ACCESSION NR: AT4019311

catalysts to provide the optimal number of centers of crystallization. Thus, the curves were quite similar for samples with large amounts of catalyst and pre-heated samples with small amounts of catalyst (e.g. the presence of three exothermal maxima), while samples containing small amounts of catalyst and not preheated showed a strikingly different curve (one endethermal and two exothermal effects). Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 17May63

DATE ACQ: 21Nov63 ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 001

CHERNEVA, E.F.; FLORINSKAYA, V.A.; PODUSHKO, Ye.V.

Infrared reflection spectra of the crystallization products of glasses of the Li₂O₋ SiO₂ system in the 7,7 - 14 μ region. Zhur. fiz. khim. 37 no.11:2556-2560 N'63. (MIRA 17:2)

ALEKSEYEV, A.G.; VERTSNER, V.N.; KONDRAT'YEV, Yu.N.; PODUSHKO, Ye.V.; TIKHOMIROV, G.P.

Catalyzed crystallization of glass. Dokl. AN SSSR 154 no.1: 178-180 Ja'64. (MIRA 17:2)

1. Predstavleno akademikom A.A. Lebedevym.

S/0020/64/154/001/0178/0180

AUTHORS: Alekseyev, A. G.; Vertsner, V. N.; Kondrat'yev, Yu. N.; Podushko, Ye. V.; Tikhomirov, G. P.

TITLE: Investigation of catalyzed crystallization of glass

SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 178-180

TOPIC TAGS: glass crystallization, catalyzed crystallization, glass opacity, spodumene, glass thermal treatment, $\text{Li}_2\text{O-Al}_2\text{O}_3$ -SiO₂ Glass, TiO_2 catalyst

ABSTRACT: Glasses of the systems Li₂O-Al₂O₃-SiO₂ (similar in composition to that of spodumenė) with 5% addition of TiO₂ as a catalyst were studied. Structural analysis was performed by electron- and X-ray diffraction. In-addition, changes in light absorption were measured. Specimens were heat treated in air for 25 hrs in the temperature range between 600 and 1000°. There was no noticeable structural change in glass up to 625°. In the range from o25 to 700°, small crystals in some parts of the specimens appear. Above 700°, small-crystalline phase in the whole volume

Cord 1/2

ACCESSION NR: APAOLO759

ACCESSION NR: AP4010759

is formed. The crystals remain small up to 830°. Above this temperature large size crystals are formed, and the glass becomes opaque. Orig. art. has: 3 Figures.

ASSOCIATION: None

SUBMITTED: 06Jun63

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: CH

NR REF SOV: 001

OTHER: 002

Card 2/2

ALEKSEYEV, A. G.; VERTSNER, V. N.; ZHUKOVSKAYA, O. V.: PODUSHKO, Ye. V.; TIKHOMIROV, G.P.

"The structure of some glasses of $\text{LiO}_2\text{-Al}_2\text{O}_3\text{-SiO}_2\text{-TiO}_2$ system and its variation in thermal treatment over the wide temperature range."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

AUTHORS:

Vargin, V.V. Podushko, Yc.V.

72-58-6-6/19

TITLE:

The Melting of Glass in a High-Frequency Electric Field (Varka stekla v elektricheskom pole vysokov chastoty)

PERIODICAL:

Steklo i Keramika, 1958, . J. ... Nr 6, pp. 16-19 (USSR)

ABSTRACT:

The melting of glass by means of a high-frequency electric current can be carried out in crucibles of any shape; the glass mass does not come into contact with the electrodes, which improves the quality of production and simplifies the construction of furnaces. There are two methods of using high frequencies for the purpose of melting glass: the method of the electric field and that of the magnetic field. For the method of the electric field a frequency of 20-25 ke will be sufficient, and melting can be carried out at room temperature without any preheating. For the method of the magnetic field additional furnaces with an additional equipment for preheating the layer is necessary, which renders this method less valuable. The idea of melting glass by the method of the electric field was first developed in the USSR by A.V.Makarov, who, in 1941, succeeded in obtaining glass by means of a high-frequency system of 10 kW and 75 kc frequency in a crucible having a cubic capacity of 100 cm3. Two apparatus of this type, UVCh-80 and

Card 1/2

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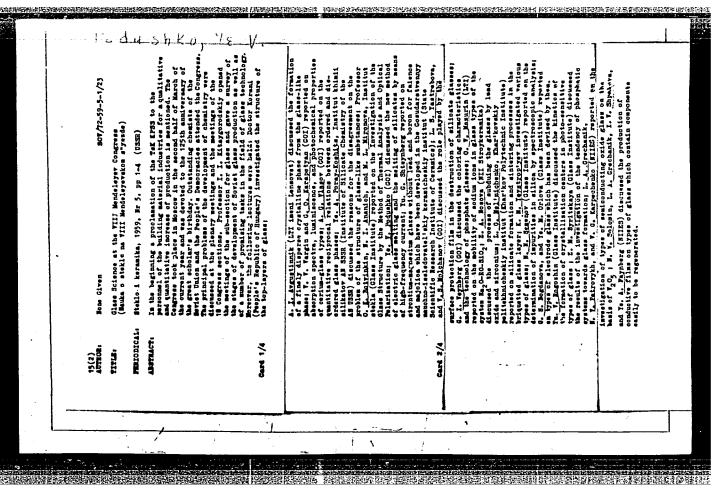
The Melting of Glass in a High-Frequency Electric Field

72-58-6-6/19

UVCh-200, are at present in operation in the USSR; their power output is 80 and 200 kW respectively. Fig. 1 shows the apparatus UVCh-80, which is also described. A double quartz crucible with interspace, filled up with orushed fire clay was found to be the most suited. Fig. 2 shows the cooling of the plates by means of a spiral tube which is soldered on. Control of the smelting process can be carried out according to efficiency and temperature. In the high-frequency systems a number of multicolored as well as of optical types of glass, and of such as are particularly difficult to smelt was smelted, the temperature attained amounting to up to 1800°. By the smelting method of the electric field it is possible to obtain glass with a very low degree of light absorption. In the case of smelting carried out in an electric field the crucible is less liable to become corroded than in a reverbatory furnace. The entire process of glass smelting takes place in an atmosphere of oxidation, which fact exercises a favorable effect upon light absorption. The degree of efficiency of these plants is considerably higher than that of reverbatory furnaces, and the quality of glass is partly better. These systems can be used with good success both in production and in experiments. There are 2 figures, and 1 reference, O of which is Soviet.

1. Glass--Melting 2. High frequency currents--Thermal effects

Card 2/2



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EWT(m)/EWP(e)/EWP(b) L 11869-66 GS/WH ACC NR AT6000503 SOURCE CODE: UR/0000/65/000/000/0351/0356 AUTHOR: Alekseyev, A. G.; Vertsner, V. N.; Zhukovskaya, 0. V.; Podushko, Tikhomirov, G. Ye. V.; 5. ORG: None TITLE: The changes in the properties and structure of Li20-Al203-SiO2-TiO2 glasses during heat treatment in a wide range of temperatures SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya, Leningrad, Izd-vo Nauka, 1965, 351-356 TOPIC TAGS: lithium glass, silicate glass, aluminum silicate, solid solution, catalized crystallization, cujatal ABSTRACT: The properties and structure of lithia-aluminosilica glasses catalyzed by TiO2 and treated within a wide range of temperatures have been investigated. Special attention was paid to glasses the composition of which was close to spodumene (SiO₂ - 60.5; Al₂O₃ - 28.0; Li₂O - 6.5; TiO₂ - 5.0 weight %). The results cover the dependence of the index of refraction and glass density on the duration of treatment, the comparative x-ray and infrared reflection spectra for glasses treated at different temperatures, and the dependence of the index of refraction and glass density on treatment temperature. Curves of the differential thermal analysis are also given. The results show that at temperatures of 700 to 800C the resulting crystals Card

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belong basical	ly to the eucryptite-	like solid solution. By their	
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solution is no	w of the spodumene ty	pe. Orig. art. has: 6 figures	ing the solid
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	함께 보고 있는 이렇게 있다.	그 얼마는 왜 유럽을 시골하는 그래?	
	생님, 그렇게 되었다면 그를	보이 되는 의료를 맞았다. 그는 그는 그는 그	
		는 등 학교 연락 즐겁게 살아 그 살이 있다.	
		그 아이들의 바로움이 되는 것이다.	
		원하다 아무리는 불쾌물하는 하나요? 그런다.	
		하는 사람은 원활활활 하는 그리지 않다.	
		병원 시간 보험하다면서 보고 됐다고요?	
		그님, 그런 노랫 팔루트로 받아 다니다.	
		근데로 보다 그렇다. 하루함 필리 호급증다	
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		그리다 살았다. 생생하는 맛이 되었다.	
		리 하이 그 말이 되어 있다. 얼룩나를 다양하다 하나 그는 것은 것	

ACC NR: AP6018727

L 412(1-1-5)

SOURCE CODE: UR/0057/66/036/006/1027/1033

AUTHOR: Golant, V. Ye.; D'yachenko, V.Y.; Novik, K.M.; Podushnikova, K. A.

ORG: Physicotechnical Institute im. A.F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnich-eskiy institut AN SSSR)

TITLE: Investigation of electron cyclotron heating of plasma

135(c)

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1027-1033

TOPIC TAGS: plasma heating, cyclotron resonance, hydrogen plasma, magnetic mirror, plasma electron temperature

ABSTRACT: The authors' experiments on heating plasmas in a magnetic mirror system by supplying energy at the electron cycletron resonance differed from other such experiments in that separate oscillators were employed to produce the plasmas and to heat them. The plasmas were produced in 9 cm diameter, 18.5 or 30 cm long copper resonators containing hydrogen at from 5 x 10⁻⁶ to 10⁻³ mm Hg. The shorter resonator communicated via a 3.5 cm diameter hole in an end wall with a glass tube. The resonator in use was mounted between magnetic mirrors (mirror ratio, 1.8) 30 cm apart. When the shorter resonator was employed, the glass tube was in the region of one of the magnetic mirrors; in all cases the copper resonator was between the mirrors. Approximately 100 W of rf power at 9.3-9.5 kMHz was continuously supplied to the

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ACC NR: AP6018727

resonator to ionize the gas and 4.12 to 30 microsec pulses of rf power at the same frequency with pulse powers up to 100 kW were employed to heat the plasma. The visible radiation from the plasma was recorded with a photomultiplier, the x radiation from the plasma was recorded with a 0.1 x 3 or a 3 x 3 cm NaI scintillator shielded with 1 cm of lead, and the plasma was probed with 10, 3.3-4, and 0.8 cm wavelength microwave beams. The continuous 100 W excitation at 9.3-9.5 kMHz produced plasmas with electron densities of the order of 10^{12} cm⁻³ when both magnetic mirrors were operating, and part of the plasma produced in the shorter copper resonator appeared in the portion of the glass side tube that was between the magnetic mirrors. The uhf pulses were strongly absorbed by the plasma; under favorable conditions 30% of the pulse power was absorbed. The maximum energy thus injected into the plasma was 0.2 J. X radiation was observed when the plasma was excited by the powerful uhf pulses. From the absorption curve of the x radiation it was concluded that electrons with energies up to 100 keV were present with a concentration (estimated from the total absorbed energy and the volume of the plasma) of the order of 1010 cm-3. The x-ray pulse was delayed by some 4-5 microsec with respect to the exciting uhf pulse, and when the uhf pulse duration was less than 5 microsec the x rays did not appear. In view of the fact that plasmas produced during the experiments within the shorter metallic resonator appeared outside the resonator in the glass tube, it is suggested that it may be possible simultaneously to heat both the ions and the electrons of the same plasma

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L 26971-65 EWT(1)/EPA(sp)-2/EWT(m)/T/EEC(t)/EPA(w)-2/EWA(m)-2 Pz-6/Po-4/Pab-10/Pi-4 LJP(c) AT

ACCESSION NR: AP5003260

V0057/65/035/001/0172/0174

AUTHOR: Galaktionov, B.V./ Larionov, M.M./ Podushnikova, K.A.

B

TITLE: On the anisotropy of the electron energy distribution in the "alpha" in-

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 172-174

TOPIC TAGS: plasma, plasma energy distribution, electron energy

ABSTRACT: The electron energy distribution in the plasma of the "alpha" installation was measured at the instant of maximum discharge current with a triple-grid probe. The probe was oriented so that its electrodes were perpendicular to the magnetic field at the instant of maximum current; by rotating the probe through 180° it was possible to determine separately the energy distribution of the electrons that were accelerated or retarded, respectively, by the circuital electric field. Although no anisotropy of the ion energy distribution had been detected in previous measurements, the electron energy distribution was found to be indeed anisotropic. The observed electron energy distribution could be represented by a displaced Maxwellian curve in which the energy of the directed motion was from 3 to 15% of the

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ACCESSION NR: AP5003260

3

thermal energy. These results are similar to those obtained by A.Gibson and D.W. Mason (Proc.Phys.Soc.79,326,1962) for the "zeta" installation. The interpretation of the results is discussed very briefly, and it is suggested that reflection from field fluctuations prevents any considerable number of electrons from being continuously accelerated, so that the effect of the longitudinal electric field is merely to render the electron velocity distribution slightly anisotropic. "We are grateful to B.P.Konstantinov, V.Ye.Golant and D.G.Bulyginskiy for the interest they have shown in the work and for much valuable advice." Orig.art.has: 2 figures.

ASSOCIATION: none

SUBMITTED: 12Aug64

BNCL: 00

SUB CODE: ME

NR REP SOV: 004

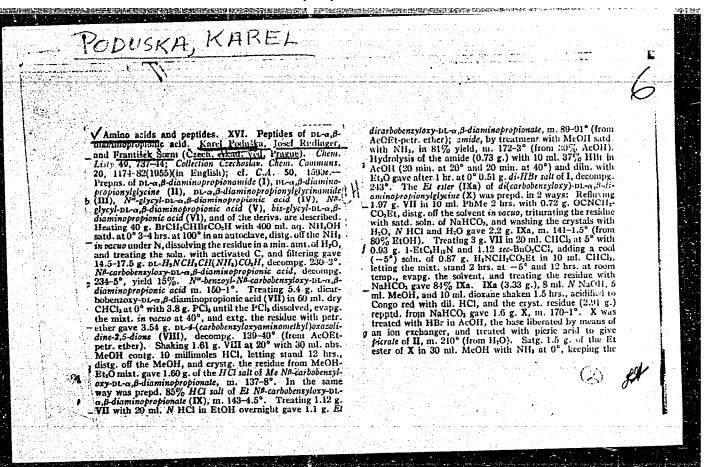
OTHER: 002

Cord 2/2

PRAVDA, Z.; PODUSKA, K.; BLAHA, K.

Amino acids and peptides. Pt.43. Chem Cz Chem 29 no.11: 2626-2632 N $^{6}64$.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague.
2. Present address: Institute of Epidemiology and Microbiology, Prague (for Prayda).



KAREL POSDUSKA

1/2

mixt. overnight, distg. off the MeOH, and repeating the procedure with the residue gave 1.18 g. of the amide of X, m. 178-9.5° (from aq. BIOH). Treatment of 0.8 g. of this compd. with HBr in AcOH, with Amberlite, and with pieric acid gave 0.75 g. of the dipicrate of III, m. 190-1° (from aq. BIOH). IX (from 2.12 g. IX.HCl and NH, in CHCl;) treated with 1.44 g. PhcHyo,CNHCH,CON, gave Elester of NA-carbobensyloxy-N²-carbobensyloxyglycyl-DL-α,β-diaminopropionic acid (XI) as a gej; the Me ester was prepd. similarly. Sapon, of the Et or Me ester of XI by keeping 1.5 hrs. with N ale. NaOH gave 1.58 g. free XI, m. 120-2°. Treatment of XI with HBr in AcOH; filtering the soln. through Amberlite, evapg. the soln. to 10 ml., and adding to 4 ml. 0.23 g. pieric acid in 3 ml. EtOH pptd. 0.3 g. of the picrate of IV, decompg. 208° (from H₂O). Dissolving 24 g. of the HBr salt of H. NCH₂CH(MH₂)CO₂H in 130 ml. 2N NaOH, cooling the soln. to 0°, and treating during 35 min. with 35 g. toxylglycine chloride in Et₂O and with 300 ml. N NaOH, stirring the mixt. 35 min. at 0°, sepp. the aq. layer, extg. it twice with E₂O₂, acidifying with HCl to Congo red, reppig. the sepd. crystals 3 times, and crystg. the prod-

uct from dil. AcOH gave 7.1½ g. dikydrate of N°, N° bis- (losylglycyl)-D1-a, β-diaminopropionic acid (XII), m. 80-2°, Adjusting the pH of the mother liquors to 7 and letting the soln. stand several hrs. at 0° gave 10.57 g., and by evapg. un addul. 1.34 g. N° A-torylglycyl-D1-a, β-diaminopropionic acid (XIII), decompg, 202°. Heating 2.77 g. XIII, 2.0 g. PhOH, and 44 ml. 37% HBr in AcOH 2 hrs. at 70° in a pressure bottle, cooling the mixt., pouring it into 150 ml. Et.O. allowing to stand 2 hrs. in the icebox, washing the crystals several times with Et.O. dissolving them in H₂O, removing the Br ions with Λmberlite in an acetate cycle, evapg. the filtrate in tatuo, and treating the residue with 30 ml. EtOH contg. 15 millimoles HCl pptd. an oil which crystd' on trituration at 50°. Dissolving the HCl salt in a min. aprt. of H₂O, treating the soln. with 20 ml. EtOH contg. 5 millimoles HCl, and adding Et₂O pptd. 1.45 g. of the HCl sall of V, decompg. 210°. The same product was obtained from XIII in 48% yield by reduction with Na in 1Hi. Heating 0.53 g. XII (dried in secue over P₂O₂), 0.6 g. PhOH, and 10 ml. 30% HBr in AcOH 4 hrs. at 65°, and working up the mixt. at described above yielded 87% of the amino acid and, after adding pieric acid, 76% of the pierate of VI, m. 204-5° (decompn.) (from H₂O). Adding at 0° 1 g. tosylglycine chloride in Et₂O soln. to 91 g. HCl of the salt of Et N³-carbobenzyloxydiaminopropionate in 6 ml. N NaOH; shaking the mixt. 1.5 hrs. at 0°, seeg. the an, layer, extg. it twice with Et₂O, and acidifying with HCl gave an oil which crystd. in the icebox. Repptn: and recrystn. gave 0.29 g. N³-carbobenzyloxy-Dx-oxydiaminopropionate in 6 ml. N NaOH 2 hrs. at 0°, extg. the soln. twice with Et₂O, and acidifying it with HCl gave an oil which crystd.; after repptn. and recrystn. from aq. EtOH, it m. 155 6° (yield 0.2 g.).

CZECHOSLOVAKIA

PODUSKA, K; RUDINGER, J

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2938-2954

"Amino acids and peptides. Part 62: Synthesis of a protected cyclodecapeptide containing 4.y-diaminobutyric acid."

CZECHOSL OVAKIA

PODUSKA, K

Institute of Organic Chemistry and Biochemistry, Czechoalovak Academy of Sciences, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2955-2972

"Amino acids and peptides. Part 63: Synthesis of a linear decapeptide sequence containing a,y-diaminobut-yric acid."

PODUSKA, KAREL

CZECHOSLOVAKIA/Organic Chemistry - Naturally Occuring Substances and Their Synthetic Analogs. G-3

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 25322

Author

: Poduska Karel, Rudinger Josef

Inst Title

Amino Acids and Peptides. XXI. N-Substituted Pyrrolidones

as Intermediates of the Synthesis of Peptides of Gamma-Amino-Butyric and Alpha-Gamma-Diamino-Butyric Acid.

Orig Pub

Chem. listy, 1957, 51, No 4, 616-624; Sb. chekhosl. khim.

rabot, 1957, 22, No 4, 1283-1292

Abstract

Description of the syntheses of 1-tosyl-pyrrolidone-2 (I), 3-carbobenzoxy-amino- and 3-tosylamino-1-tosyl-pyrrolidone-2 (II and III) and of the use of these substances in the syntheses of peptides of gamma-amino-butyric and alpha-gamma-diamino-butyric acid. I was synthesized:

a) by cyclisation with SOCl: 6.41 g gamma-tosyl-amino-butyric acid (TABA) and 20 ml SOCl, were boiled until all

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red flask for 30 minutes at 95°. Mixture dissolved in ethyl acetate (EA), product precipitated with petroleum

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G-3

Abs Jour

: Ref Zhur - Khimiya, No 8, 1958, 25322

ether; yield 78%, MP 92-93° (from aqueous alcohol); b) the reaction mixture, same as in the case of (a), and 0.25 ml CH, CN heated for 45 minutes on a boiling water bath. After evaporation of the solvent, diluted with 7 ml ether; yield 75%; does not cause MP depression with a sample of (a). Gamma-tosyl-amino-butyryl-glycine (V) was synthesized by shaking 3.85 g IV with 16 ml 2 N NaOH until dissolved and after 30 minutes the reaction mixture was made acid; yield of crude product 95%, MP 49-51° (from water). Preparation of gamma-amino-butyryl-glycine (VI):

a) 1.5 g V in 100 ml liquid NH 3 were reduced with 0.66 g Na, and treated with Amberlite IRC-50 (see RZhKhim, 1955, 31774, 31775); yield 70%, MP 220 c (decomposes; using block MP apparatus);

b) 1.2 g V, 1 g phenol and 18 ml 37% solution of HBr in

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CZECHOSLOVAKIA/Organic Chemistry - Naturally Occuring Substances and Their Synthetic Analogs. G-3

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25322

NX -carbobenzoxy (CBZ)-N —tosyl-L, alpha, garma-diamino-butyric acid (VIII) in 10 ml CHCl; were added at 0°1.65 g EP and 0.72 g ClCOCC_H, sec, and after 1 hour at 0° and an additional hour at about 20° there were added 40 ml ether, the product was washed on the filter with water, 1 N HCl, 5% solution of NaHCO, and with water; yield 86%, MP 184-185° (from alcohol). Preparation of EE of N × -CBZ-N y -tosyl-L-alpha, gamma-diamino-butyryl-glycine:
a) 0.194 g II, 0.155 g EE of glycine and 0.2 ml CH, CN heated on boiling water bath for 30 minutes; after cooling diluted with 20 ml ether; yield 75%, MP 107-110°, no depression with sample (b);
b) 0.103 g EE of glycine, 0.284 g (C₂H₅), P₂O - and 0.7 ml (C₂H₅), HPO₃ heated to 100° (2 minutes), added 0.406 g

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3.3

G-3

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25322

After addition of 30 ml water crude product separates, yield 75%, MP 111-113° (from alcohol-ether). Preparation of L-4-beta-CBZ-aminoethyl-oxazolidinone-2,5 (IX): into a suspension of 0.75 g N Y -CEZ-L-alpha, gamma-diamino-butyric acid in 18 ml dry dioxane; phosgene was passed at 90 cuntil dissolution was effected (vibrostirrer) and then for an additional 10 minutes, the phosgene was removed, the residue was dissolved in EA and then ether was added followed by petroleum ether; yield 98%, MP around 60° (decomposes). By action of HCL (gas) in alcohol was prepared the hydrochloride of EE of N & -CBZ-L-alpha, garma-diamino-butyric acid; no depression with authentic sample. DL-N-carboxyanhydride synthesized analogously with the L-derivative of IX; yield 95%, MP 85-88° (decomposes). Preparation of hydrochloride of 1-CBZ-L-3-amino-

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G-3

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25322

prepared as follows:
a) from 1.08 g X the base was liberated with NH in :
CICl₃, the CHCl; was evaporated, 0.84 g CBZ-glycine, 1.2
g (C,H,) P₂O₃ and 2.5 ml (C,H.) HPO; were added, the mixture was heated at 100° for 30 minutes and poured in 20
ml water; the product was washed with water and a 5% solution of NaHCO;; yield of crude product 88%, MP
132.5-134° (from 80% alcohol);
b) 0.26 g XI added to 0.21 g CBZ-glycine in 0.2 ml dry
C,H,N, allowed to stand for 1 hour, then heated at 65° for 20 minutes; residue obtained on evaporation ground with 5% solution of NaHCO₃, crystalline product washed with water, 1 N HCl, and water, dissolved in EA, solution was filtered, dried and evaporated; yield 50%.
LL-3,8-bis-beta-CBZ-amino-ethyl-dihydroxy-piperazine-2,5 was prepared from X after isolation of base with NH, on

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Card 10/11

G-3

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25322

a) by aminolysis: 0.42 g XII, 0.3 ml EE of glycine and 0.5 ml CH₃CN heated 1.5 hours at 90-100° and diluted with 10 ml water; product washed with 5% solution NaHCO₃, water, dilute HCl and water; yield 65%, MP 169-170° (EA); b) by azide synthesis: 0.46 g XIII in 10 ml of a mixture of 3 N HCl and CH₂COOH (1:1), at 0° added EA and then 0.7 ml of 10% solution of NaNO₂. Azide extracted with EA, extract washed with 5% solution NaHCO₃ (0°), dried with Na SO₃, and filtered into 0.11 g EE of glycine in EA, allowed to stand 3 days. Yield 53%, causes no depression with sample (a). Communication XX see RZhKhim, 1957, 41281.

Card 11/11

36

PODUSKA, K.

Amino acids and peptides, XXI. N-substituted pyrrolidones as intermediates in the synthesis of peptides of \(\gamma \) -amino-butyric and \(\alpha \), \(\gamma \) -diaminobutyric acid.

p. 616 (CHEMICKE LISTY) Vol. 51, no. 4, Apr. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

。 《大学》:"我们是我们的一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们

CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

G-3.

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

Author ; Poduska K.

Inst

Title

: Amino Acids and Peptides. XXIII. The Preparation and

Chromatographic Behavior of Some N-Methyl Derivatives of DL-

Lysine.

Orig Pub: Chem. listy, 1958, 52, No 1, 153-155.

Abstract: To determine the chromatographic properties of methylated drivatives of lysine, the following derivatives of DL-lysine were synthesized: N x -monomethyl (I), N $^{\epsilon}$ -monomethyl (II), and N λ -dimethyl (III). The synthesis was carried out according to the tech-

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CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

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niques described in literature, but with some modification. No dimethyl-DL-lysine (IV) was obtained by the reductive methylation of No denzoyl lysine and by hydrolysis of the prepared No denzoyl-No dimethyl lysine. The intermediate products were obtained by the following method: No dearbobenzoxy (CBZ)n-No denzoyl-DL-lysine (see Greenstein J.P., J. Org. Chem., 1938, 2, 480), was synthesized in a 84% yield and m.p. 130°C. (corrected). No denzoyl-DL-lysine monohydrate was obtained from CDZ-derivative by hydrogenation over Pd/C, yield 86%, m.p. 232-233°C. (corrected; decomposition; from water) No dimethyl-No denzoyl-DL-lysine was obtained from 4.13 grams of No denzoyl lysine using a minimum amount of water

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CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

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(at 20°C.) and 8.5 ml of 40% CH₂O and 2.5 grams of 15% Pd/C by hydrogenation (24 hours, 20°C). After changing the catalyst (1 g.), the hydrogenation was carried on for an additional 24 hours. The solution was evaporated to dryness, the residue was dissolved and was re-evaporated until free from formaldehyde odor; yield 76% (crude), m.p. 207-210°C. (corrected; from alcohol - acetone). IV was obtained from 0.8 grams of the previous product by boiling with 4.5 ml of 2 N barium hydroxide (5 hours), Ba²⁺ was removed with CO₂, the filtrate was acidified to Congo end point with sulfuric acid, after the barium sulfate was removed the filtrate was extracted twice with ether and poured on amberlite IRA-40 (OH-form). The

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CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802/

product was washed out with 5% ammonia and the eluate was evaporated to dryness; yield 50%, m.p. 243-245°C. (corrected; decomposition); monopicrate, m.p. 183-184°C. (corrected; decomposition; from aqueous alcohol).

No-benzoyl-No-dimethyl-DL-lysine from 5 grams of No-benzoyl-Ll-lysine, which was dissolved in water and 10 ml of 40% CHiO, was hydrogenated similarly to IV, yield of the crude product (dihydrate) was 38%, m.p. 195-197°C., (corrected; from alcohol - acetone). An anhydrous product was obtained by drying over Poorfor 24 hours at 120°C./0.5 mm., m.p. 197-198°C., (corrected). The other method: six grams of (No-bromo-Section aced). The other method: six grams of (No-bromo-Section aced) in a closed vessel for 6 weeks; the solution was

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CZECHCSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

filtered with activated carbon and was evaporated to dryness. The residue was dissolved in water, and was re-evaporated, after the bromides were removed with silver oxide; yield 51%, m.p. 195-197°C., (from alcohol - acetone). III was obtained by the hydrolysis of the previous product in the same way as in the preparation of IV. The acetate solution was neutralized with HCl (acid) to limus and was evaporated to dryness. The residue was dissolved in 90% alcohol, pyridine was added and the product was precipitated with ether. The yield was 70%, m.p. 139-140°C. (corrected). N-benzoyl- & -methylamino capronic acid was synthesized by heating in a sealed flask to 75°C.

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CZECHOSLOVAKIA/Organic Chemistry. Natural Froducts and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

for 2 hours and using 6 grams of N-tosyl- \(\xi\$-methylamino capronic acid, 4 grams of phenol in 50 ml of 30% HBr in glacial acetic acid. The product after cooling was poured into 500 ml of dry ether, washed with dry ether and afterwards was acylated with C,H,CCCl; yield 30%, m.p. 79-81°C. (corrected). N\(\xi\$-benzoyl-N\(\xi\$-methyl-DL-lysine was obtained from 1.4 grams of N-benzoyl-\(\xi\$-methylamino capronic acid, 2.8 ml SC Cl and 10 milligrams of iodine, which was heated for one hour to 65-75°C and concentrated to dryness under vacuum. The residue was triturated with water and heated to 85-95°C. with 25 ml of 25% ammonia under pressure for 7.5 hours. The product was evaporated under vacuum and was washed with

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CZECHOSLCVAKIA/Organic Chemistry Natural Products and Their Synthetic Analogues.

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81802.

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80% alcohol. The yield of unpurified product was 17%, m.p. 232-234°C. (corrected; decomposition). II was obtained from the previous compound by hydrolysis with barium hydroxide in the same way as in the case of IV; picrate m.p. 227°C. (corrected; chlorides of the N-methyl derivatives of I-IV was carried out for 14 days on Whatman No. 1 in a phenol water - armonia system, and butanol - acetic acid water (6:1:3). The values of R of the products refer to the value of R of the lysine hydrochloride and are expressed as R(lysine) 1) in phenol - NH: acetic acid: I 1.08, II 1.10, III 1.13, IV 1.12, 2) in butanol - acetic acid: I 1.33, II 1.41, III 1.48, IV 1.45.

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Anglore Their Synthetic Anglogs CATIGORY 10.82hh4 : RZKham., No. 23 ABS. JOUR. : Poduska, K. : Amino-Acids and Peptides. XXIII. Preparation AUTIGOR and Chromatographic Behavior of Sone E-hethyl INST. TITLE : Collect. Ozachosl. Chem. Communs, 1959, 21, Derivatives of DL-Lysine ORIG. PUB. No 3, 1025-1028 See REMKhim., 1959, No 2L, No 81802. : No abstract. ABSTRACT

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Amino acids and peptides. Pt.49. Coll Ca Chem 30 no.5:1611-1617 My 165.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague. Submitted August 1, 1964.

CIA-RDP86-00513R001341520001-4" APPROVED FOR RELEASE: 06/15/2000

RUDINGER, J.; PODUSKA, K.; ZAORAL, M.

Amino acids and peptides. XXIX. Synthesis of the lower homologues of Larginine and L-citrulline. Coll Cz Chem 25 no.8:2022-2028

(EEAI 10:9)

1. Department of Organic Synthesis, Institute of Chemistry, Czecho-slovak Academy of Science, Prague.

(Amino acids) (Peptides) (Arginine) (Citrulline)

PODUSKA, V1.

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1. Zavody V.I.Lenina National Enterprise, Plzen.

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Mechanism of the catalyzed crystallization of glass in the system Li₂0 - Al₂0₃ - Si0₂ with titanium dioxide. Stekloobr. sost. nc.1: (MIRA 17:10)

FLORINSKAYA, V.A.; PODUSHKO, Ye.V.; GONEK, I.N.; CHERNEVA, E.F.

Infrared spectra of vitreous and crystallized silicates in the system Li₂0 - Al₂0₃ - Si₀2 - Ti₀2 and their connection with structure. Stekloobr. sost no.1:90.99 163. (MIRA 17:10)

KONDRAT'YEV, Yu.N.; PODUSHKO, Ye.V.

Investigating catalyzed crystallization by absorption changes.

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KONDRAT'YEV, Yu.N.; PODUSHKO, Ye.V.; SEREBRYAKOVA, M.V.;
TIKHOMIROV, G.P.; TUDOROVSKAYA, N.A.; FLORINSKAYA, V.A.;
LIBERMAN, N.R., red.

[Controlled catalyzed crystallization of glasses of the lithium aluminosilicate system] Katalizirovannaia reguliruemaia kristallizatsiia stekol litievoaliumosilikatnoi sistemy. Leningrad, Khimiia. Pt.l. 1964. 119 p.

(MIRA 18:4)

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"The Effect of Vitamin D2 on the Dynamics of Clinical Morphological Changes in the Foci of Tuberculous Lupus Vulgaris." Cand Med Sci, L'vov State Medical Inst, L'vov, 1954. (KL, No. 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) 80: Sum. No. 556, 24 Jun 55

USSR/General Problems of Pathology. Pathophysiology of Infection.

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Abs Jour: Ref Zhur-Biol., No 8, 1958, 37102

Author: Shtein, A.A., Zelikova, R.L., Podusovski, V.F.

Inst

Title : The Effect of Disturbances of Innervation and Function

of the Testicle on the Development of Experimental

Leprosy in Rats.

Orig Pub: Zh. microbiol. epidemol. i immunobiologii, 1956 (1957)

prilozhenie, 31.

Abstract: The nerve, innervating the seminal vesicles (S) and

seminal ducts, was sectioned in 12 rats. An emulsion of a rat leproma was injected 2 weeks later in both S. The denervated S rapidly increased in size within 12-2 months. Smears of the internal organs demon-

Card : 1/2

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PODURETS, M.A.

Collapse of a star with allowance for counterpressure.
Dokl. AN SSSR 154 no.2:300-301 Ja'64. (MIRA 17:2)

1. Predstavleno akademikom Ya. B. Zel'dovichem.

PODUSOVSKIY, V.F.; KASTORNAYA, M.A. [deceased]; YAMPOL'SKIY, V.B.

Morphological changes in the brouchi in resected lungs from patients and their relation to postoperative complications. Probl. tub. 42 no.3:70-74 *64. (MIRA 18:1)

l. L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza (direktor G.I.Chemeris, nauchnyy rukovoditel' - prof. I.T. Stukalo) i L'vovskaya oblastnaya protivotuberkuleznaya bol'nitsa (glavnyy vrach V.N.Kishakevich).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520001-4"

POBEGAYLO, V.M.; PODUSOVSKIY, V.F.; GLUKHEN'KIY, B.T.

Effect of ascorbic acid on the course of radiation sickness in white rats. Biol.deis. rad. no.1:58-63'62. (MIRAI6:6)

l. Kafedra radiologii i rentgenologii L'vovskogo meditsinskogo instituta.

(ASCORBIC ACID) (RADIATION SICKNESS)

PODUSOVSKIY, V.F., kand. med. nauk; SHLAPAK, P.T., kand. med. nauk

Pathomorphological changes in the myocardium in chronic forms of tuberculosis of the lungs. Probl. tuberk. 41 no.2:64-71'63 (MIRA 17:2)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand. med. nauk G.I.Chemeris, nauchnyy rukovoditel' prof. I.T.Stukalo).

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Pobegaylo, V. M., Podusovskiy, V. F. and Glukhen'kiy, B.T.

AUTHORS:

The influence of ascorbic acid upon the course of radia-

TITLE:

tion sickness in white rats

SOURCE:

L'vov. Universytet. Problemna lyaboratoriya radiobiolohiyi. Biologicheskoye deystviye radiatsii, no. 1, 1962,

The present authors studied the clinical picture and morphological changes in the internal organs of 62 200 - 250 g white rats exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by intraperate exposed to radiation emitted by P³², administered by P³², ad rats were given a dose of 1.5 μ c. In this group, 16 rats received no further treatment and served as control animals, and 16 rats were given 1.0 ml of a 5% ascorbic acid solution daily by intramuscular injection, until the animal died. The remaining 30 rats were given a dose of 2.5 µc. Here, too, 15 rats received no further

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The influence of ascorbic 1...

treatment and served as control animals, and 15 rats were given ascorbic acid. After each animal's death (occurring at different times), the brain, lymph nodes, and all internal organs were investigated. In the control animals exposed to the smaller dose of 1.5 uc, a period of excitation lasting 8 - 10 hours was followed by apathy, pyrexia and loss of weight. After a period of apparent recovery, the animals' condition deteriorated again after 15 - 25 days. 50% of these animals perished of multiple hemorrhages in the mucous membranes, the serous membranes and all internal organs, showing loss of hair and ulceration of the skin. The rats slowly recovered. In the group exposed to the larger dose, all control animals perished within 21 days. During the first 20 days of treatment with ascorbic acid, no difference could be found between the experimental and the control animals, exposed to the smaller dose. Later, however, the clinical symptoms were much less marked, with all animals living longer and the greater proportion surviving. The experimental animals exposed to the larger dose perished without exception, but only after 48 days. In the control groups, autopsy revealed multiple hemorrhages in all internal organs and

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The influence of ascorbic ...

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on the mucous membranes, parenchymatous degeneration and necrosis, the latter particularly in animals exposed to the larger dose. The regenerative changes in the shape of the cell proliferation round the necrotic foci were insignificant. In the group treated with ascorbic acid, the degenerative changes and the hemorrhages were less marked and active cell proliferation could be observed round the foci of destruction.

ASSOCIATION:

Kafedra radiologii i rentgenologii L'vovskogo meditsinskogo instituta (Department of Radiology and Roentgenology, L'vov Medical Institute)

Card 3/3

THE PROPERTY OF THE PROPERTY O 5 USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System. : Ref Zhur - Biologiya, No 4, 1959, No. 16927 Abs Jour : Podusovskiy, V. F. : Pathomorphology of Nerve Endings of the Author Skin in Patients with Lupus Tuberculosis Inst During Treatment with Vitamin D2 Title : V sb.: Sovrem. vopr. dermatol. Kiyev, Gosmedizdat USSR, 1957, 136-141 Orig Pub : The neuroreceptor apparatus of the skin of 10 patients with lupus (25 biopsies) before and after treatment with vitamin D2 was Abstract studied histologically. Before treatment, the nerve bundles and receptor apparatuses were Card 1/3

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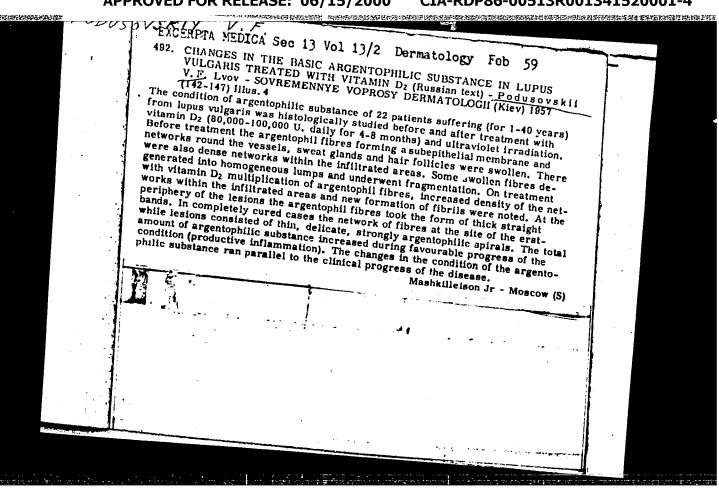
USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. Peripheral Nervous System.

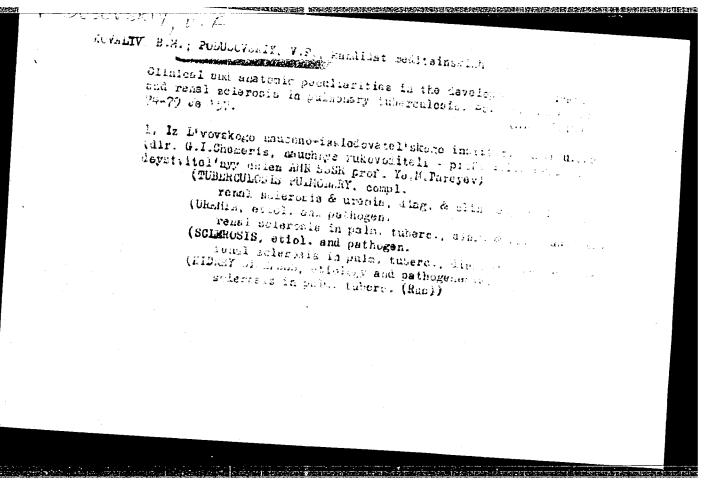
Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16927

not discovered in the tuberculosis infiltrate of the skin. Along the periphery of the infiltrate, thick sensitive fibers with infiltrate, thick sensitive fibers with infiltrate, thick sensitive fibers with infiltrate, thick sensitive fibers were found. Fragmentation of nerve fibers was observed. Thin vegetative fibers was observed. Thin vegetative fibers swelled only slightly. In the connective-swelled only slightly. In the connective-tissue membranes of nerve trunks there was a round cellular infiltration. After a round cellular infiltration. After the region of the scar, manifestations of the region of the scar, manifestations of irritation and regeneration of nerve fibers irritation and regeneration of nerve fibers were observed. In patients with improvement of the process there were fragmentation,

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KOVALIV, B.M., kand.med.nauk; FODUSOVSKIY, V.F., kand.med.nauk

Clinical, functional, and morphological characteristics of amyloid mephrosis in tuberculosis. Sov. med. 25 no.8:20-28 Ag '61.

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(AMYLOIDOSIS) (KIDNETS.—DISEASES)

(TUBERCULOSIS)